

**APPENDIX**  
**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Please amend claims 6, 9, 13, 17, and 18 as follows. Please cancel claims 19 - 33, without prejudice. Please add new claims 34 - 36.

6. (Amended) The radiation source according to claim 5, wherein the activity density of each of said at least two layers is [substantially] the same.

9. (Amended) The radiation source according to claim 8, wherein [the] a color of a portion of said radioactive deposit corresponds to the activity level of said portion of said radioactive deposit.

13. (Amended) The radiation source according to claim 1, said outer housing configured to be opened by [the] removal of said fastener.

17. (Amended) A radiation source for calibration of nuclear imaging equipment, said radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a flexible substrate removably contained within said outer housing, said substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface, said radioactive deposit having a radioisotope, a binding agent, and a colorant, wherein

at least a portion of said radioactive deposit has at least two layers[, each layer having substantially the same activity density], and

[the] a color of a second portion of said radioactive deposit indicates [the] an

activity level of said second portion of said radioactive deposit.

18. (Amended) A radiation flood source for calibration of nuclear imaging equipment, said radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a flexible substrate removably contained within said outer housing, said substrate having a front surface;

a radioactive deposit fixedly deposited upon said front surface, said radioactive deposit having a radioisotope, and a colorant; and

a sealing layer covering said radioactive deposit and said front surface of said substrate, wherein

at least a portion of said radioactive deposit has at least two layers[, each layer having substantially the same activity density], and

[the] a color of a second portion of a radioactive deposit indicates [the] an activity level of said second portion of said radioactive deposit.

34. (New) A nuclear imaging system, comprising:

a piece of nuclear imaging equipment to be calibrated; and

a radiation flood source to calibrate the piece of nuclear imaging equipment including,

an outer housing having a fastener, said outer housing configured to be opened,

a substrate removably contained within said outer housing, said substrate

having a front surface; and

a radioactive deposit fixedly deposited upon said front surface, said radioactive deposit having a radioisotope.

35. (New) The nuclear imaging system of claim 34, further including a second substrate with a second radioactive deposit deposited thereon, said second substrate being contained within said outer housing.

36. (New) The nuclear imaging system of claim 34, wherein the combination of said radioactive deposit and said second radioactive deposit produces a desired radioactive result.